

From: [Coltrain, Katrina](#)
To: [Todd Downham](#)
Subject: FW: Wilcox Oil Site Water Well Survey
Date: Friday, September 16, 2016 6:58:00 AM
Attachments: [Fig 12-PrivateWaterSupplySamples.pdf](#)

Good Day Todd, I have a request if I may. Would you please contact Mr. (b) (6) regarding the (GW-13) the well on his property? I understand that he no longer believes it is his property, however, we still need his consent as he is the owner of record. As you know USGS will be doing borehole geophysics, and from the notes below it looks as if GW15, the clogged well is not an option. The well on Mr. (b) (6)'s property is a good alternate.

GW13 has some items that would need to be addressed before taking a sample and before doing any geophysics. See the GW-13 note just below. Would you please contact Mr. (b) (6) to inquire about whether it will be OK for us to remove the dilapidated roof and remove the pump from the well. We do not believe that the pump is operational, and would prefer to leave it next to the well when we are finished and then just simply cap the top portion of the well. The cap is put in place to close off the conduit to the aquifer and can be removed and replaced without special equipment, so access to the well is not restricted should he decide to use it later.

Thanks

GW-13:

Todd said that a person named Mr. (b) (6) owns the well which was installed by the previous owner. He is on public supply water and reportedly isn't concerned about what happens to the well. In order to collect a tap sample we would either need to remove the pump or potentially use a portable generator to provide power to the pump but we run the risk of damaging the pump, if it's even usable.

In order for USGS to log the well we would first have to remove the dilapidated roof of the well house then pull the pump assembly. The well house will need to be cleaned a bit before entering as well (there is evidence that something may consider it home).

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From: Appel, Patrick [mailto:pappel@eaest.com]
Sent: Thursday, September 15, 2016 8:09 AM
To: Coltrain, Katrina <coltrain.katrina@epa.gov>
Cc: lvega_eaest.com <lvega@eaest.com>
Subject: Wilcox Oil Site Water Well Survey

Hi Katrina -

The team completed water supply well survey we completed yesterday (please reference attached Figure 12 from the SAP):

- GW-01 is actually the older of the well pair (GW-02) located on this property, and has been P&Aed (mis-designated on SAP Figure 12); this well cannot be sampled or logged.
- GW-02 is described as being P&Aed, but it is the newer active well on this property (mis-designated on SAP Figure 12). Although GW-02 has a pump in place, there is no power supply (house is currently vacant). We might be able to collect a tap sample from this well using a portable generator, but we cannot guarantee that the in-place submersible pump is functional or that it won't incur damage from powering it up. We would have to pull the pump assembly to allow



USGS to geophysically log this well.

- GW-03 is an active well from which we can collect a tap sample.
- GW-04 is an active well from which we can collect a tap sample.
- GW-05 is an active well, but the current resident has refused access for tap sampling.
- GW-06 is an active well from which we can collect a tap sample.
- GW-07 is an active well from which we can collect a tap sample. There is also a second well located in the front yard; however, we were not able to determine if its pump is functional (possible irrigation well?). Geophysical logging would require pulling the downhole pump assembly.
- GW-08 is an active well from which we can collect a tap sample.
- GW-09 is an active well from which we can collect a tap sample. There is also an irrigation well on the property used for watering the yard and filling the swimming pool.
- GW-10 is the inactive well located on the Lorraine Process Area (abandoned church). Initial gauging using an interface probe indicated 6 feet of LNAPL above the water column (black semi-viscous liquid that smelled of kerosene), which is equivalent to about 6 gallons of LNAPL in a 5-inch-diameter casing. After bailing about 7-8 gallons of LNAPL, re-gauging indicated 2 feet of LNAPL above the water column. Based on this, we can assume that LNAPL continues to flow into well casing even after bailing. We will re-gauge tomorrow to evaluate LNAPL recovery. It may not be possible to totally remove all of the LNAPL in the well casing prior to geophysical logging activities. In addition, PID readings during bailing indicated 3-7 ppm in the breathing zone and 230 ppm at the well head. Per the HASP, we recommend improving ventilation within the shed using an engineering control (possibly using a fan) during bailing/sampling/logging activities or use of an APR (Level C).
- GW-11 appears to be inactive (homeowner is on City water) and tap sampling is unlikely. Because the homeowner is deaf, Todd Downham (ODEQ) indicated that he would communicate with her via text; we will re-evaluate tomorrow or next week.
- GW-12 is an active well from which we can collect a tap sample.
- GW-13 has a pump in place, but there is no power supply (house is currently vacant). We might be able to collect a tap sample from this well using a portable generator, but we cannot guarantee that the in-place submersible pump is functional or that it won't incur damage from powering it up. We would have to remove the roof of the well house and pull the pump assembly to allow USGS to geophysically log this well, which may result in damage and possible replacement.
- GW-14 is an inactive well with no downhole pump assembly or well house (covered with a 5-gallon bucket). Depth to water was 22.76 feet and total depth was 110.74 feet. We will be able to sample this well via low-flow sampling. USGS should also be able to geophysically log this well.
- GW-15 is an inactive well partially covered with a loose metal lid (not properly sealed against infiltration). During gauging, we encountered an obstruction at 13.1 feet below top of casing. Odors emanating from the well (and maggots observed on the interface probe) indicated that the obstruction is likely a dead animal. This well is not suitable for sampling or logging, unless the obstruction can be removed. We have no information about the well below the obstruction.

In summary:

- We currently only have 2 wells (GW-10 and GW-14) that are viable candidates for geophysical logging by USGS next week.
- We have 2 wells (GW-02 and GW-13) that are also good candidates for geophysical logging, but we would have to arrange to have the pumps pulled.
- Several active wells are also candidates for logging (any of the wells scheduled for tap water sampling), but they would require having the pumps pulled and present an inconvenience to the current resident.
- We should be able to collect tap water samples from 8 active wells (GW-03, GW-04, GW-05, GW-06, GW-07, GW-08, GW-09, and GW-12); there are also 1 functional irrigation well (same property as GW-09) that could be alternate for tap water sampling.
- We should be able to sample 2 wells (GW-10 and GW-14) using low-flow sampling methodology.

Please contact me with any questions.

Thanks

Pat